

Supplementary Material

Lanthanum Nickel Oxide: an Effective Heterogeneous Activator of Sodium Persulfate for Antibiotics Elimination

Athanasia Petala ^{1,*}, Olga S. Arvaniti ¹, Maria Christofili ¹, Alexandros Safakas ¹, Zacharias Frontistis ² and Dionissios Mantzavinos ¹

¹ Department of Chemical Engineering, University of Patras, Caratheodory 1, University Campus, GR-26504 Patras, Greece; olga.arvan@gmail.com (O.S.A.); mariaxristofilly@gmail.com (M.C.); asafakas@chemeng.upatras.gr (A.S.); mantzavinos@chemeng.upatras.gr (D.M.)

² Department of Chemical Engineering, University of Western Macedonia, GR-50132 Kozani, Greece, zfrontistis@uowm.gr (Z.F.)

* Correspondence: natpetala@chemeng.upatras.gr; Tel.: +302610997223

Table S1. Main properties of the actual water matrices used in this study.

Parameters	Secondary Wastewater	Bottled Water
pH	8.0	7.5
Conductivity ($\mu\text{S}/\text{cm}$)	311	356
Total organic carbon (mg/L)	7	-
Chemical oxygen demand (mg/L)	21	-
Sulfate (mg/L)	30	8
Chloride (mg/L)	74	9.8
Nitrate (mg/L)	57	2.4
Bicarbonate (mg/L)	182	238

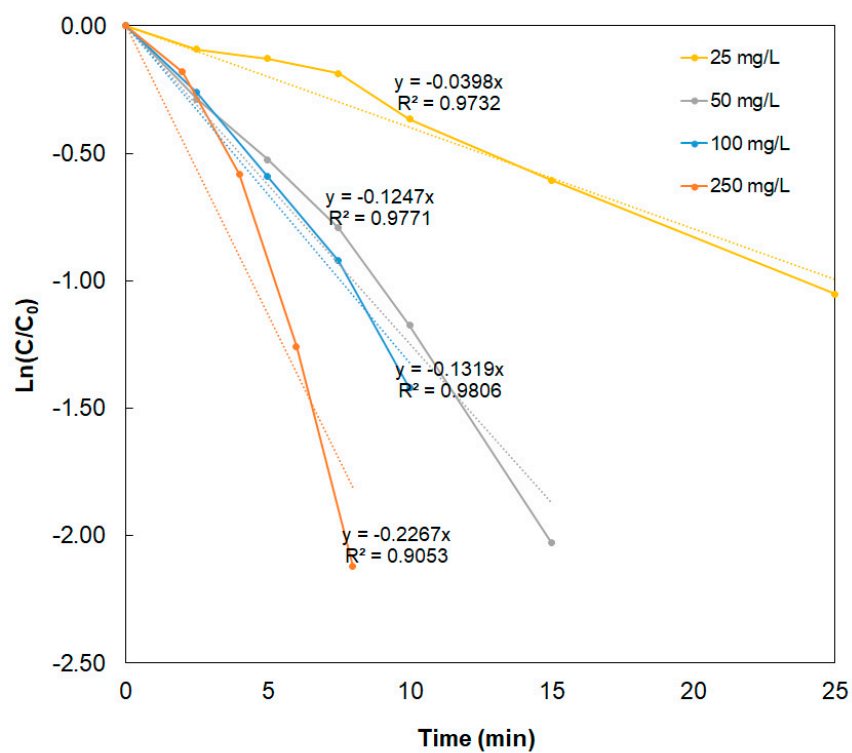


Figure S1. Effect of catalyst dosage: $\ln(C/C_0)$ as a function of time through linear regression. Experimental conditions: $C_{SMX} = 500 \mu\text{g/L}$; $C_{SPS} = 100 \text{ mg/L}$; pH = 6; room temperature.